

DECLARATION AND POWER OF
ATTORNEY FOR PATENT APPLICATION
(37 CFR 1.63)

Declaration Submitted with Initlal Filing

OR

Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

Attorney Docket Numb	ber 42P19120	
First Named Inventor	Fabrice Paillet	
Č	COMPLETE IF KNOWN	
Application Number	10/808,785	
Filing Date	March 24, 2004	
Art Unit		
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint Inventor (If plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
the specification of which	
is attached hereto.	
OR .	
was filed on (If applicable): or as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)
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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States O a a

Prior	Foreign	Anolicatio	n(a):

application	a, listed below a n for patent, inv n having a filing	entor's or pla	nt breed	er's rights cer	tificate(s).	, or any F	PCT international
Prior Foreign	Application(s):						
Prior F	oreign Application Number(s)	Cour	itry	Foreign Filing D (MM/DD/YYY		ority Daimed	Certified Copy Attached?
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a part of the substitution Patent and	I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.						
Direct all con	respondence to:	Customer	Number	08791	or 🔲 C	correspond	ence address below
Name	Blakely, Sokoloff,	Taylor & Zafma	n LLP				
Address	12400 Wilshire Bo	ulevard, 7th Floo	r		•		
City	Los Angeles		State	California		Zip Code	90025
Country			Telephone	(408) 720-8300		Fax	(408) 720-8383
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
NAME OF	SOLE OR FIRST	INVENTOR:	☐ A pe	etition has be	en filed for	r this unc	dersigned inventor
Full Name:				Fabrice Paill			
Inventor's	Signature	(First, Mide	ile (if any).	Family Name (or S	Surname), and Date <u></u>	1 Suffix [if a 1 16 20	ny]) 064
Residence	Hillsboro, Oreg	on USA		Cit	lzenship _	France	
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	Hillsboro	Oregon 97124 (JSA				



NAME OF SEC	COND INVENTOR:	A petition has be	en filed for this	undersigned inventor
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				:
NAME OF THI	RD INVENTOR:	☐ A petition has be	en filed for this	undersigned inventor
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		t, Middle [if any], Family N	ame (or Surname), an	d Suffix [if any])
Inventor's Sig	nature		Date	· · · · · · · · · · · · · · · · · · ·
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Banilina Addan.	· ·	te, Country)		(Country)
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NAME OF FOU	JRTH INVENTOR:	☐ A petition has be	en filed for this i	undersigned inventor
Full Name: _		Jiar	ping Xu	
		t, Middle [if any], Family N		
Inventor's Sigi	nature 2076	E DM	_ Date	6/17/2004
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	Portaliu, Oregon 97	229 USA		
NAME OF FIFT	TH INVENTOR:	A petition has be	en filed for this ı	undersigned inventor
Full Name: _				· · · · · · · · · · · · · · · · · · ·
	•	t, Middle [if any], Family N		d Suffix [if any])
Inventor's Sign	natur <u>e</u>		_ Date	
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Mailing Addres	• •			(
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Docket No. 42P19	9120	-3-		



I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN. a firm including: William E. Alford, Reg. No. 37,764; Farzed E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, No. 43,487; Michael A. Bernadicol, Reg. No. 39,934; Royal W. Slabely, Jr., Reg. No. 39,637; Minl D. Dao, Reg. No. 46,149; Gregory D. Celdwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 37,613; Sanjeet Dutta, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,613; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. 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No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; C. Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,648; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthla Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthla Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeler, Reg. No. 51,003; Erlk M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,898; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,996; Michael D. Plimler, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skebrat, Reg. No. 36,279; Paul F. Steiner, Reg. No. 50,804: 36,279; Paul E. Steiner, Reg. No. 41,328; Joni D. Stutmen-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,205; Nobell Wilardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or Intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



DECLARATION AND POWER OF	Attenney Docket Numb	ter 42P19120
ATTORNEY FOR PATENT APPLICATION	First Named Inventor	Pabrice Paillet
(37 CFR 1.63)		COMPLETE IF KNOWN
	Application Number	10/808,785
Declaration Submitted OR With Initial Filing (surcharge	Filing Date	March 24, 2004
	Art Unit	
Filing (37 CFR 1.18(e)) required)	Examinar Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention antitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
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is attached hereto.	
OR	
was filed on (if applicable): oras United States Application Number _ orPCT International Application Number	10/808-785
and was amended on	(if applicable)
hereby state that I have reviewed and understand the contents of the	e above-identified

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I hereby claim foreign priority benefits under 35 U.S.C. 118(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(s) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

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Name Blake	y, Sokoloff	Taykır & Zafina	LLP	·····			
Address 12400) Wilshire Bo	suleverd, 7th Floo	T				
City Los A	ngeles			California		Zip Code	90025
City Los A	ngeles		State	California (408) 720-8300		Zip Code Fax	900725 (408) 720-8383
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Country I hereby declare statements made are punishable felse statement NAME OF SOLE Full Name:	e that all side on inforce made who fine or is may jee	statements marmation and lith the knowled imprisonment operation the visual particle the visual first, Michael (First, Michael Inventor)	Telephone ade here bellef and edge tha nt, or both validity or	ein of my own knie believed to be twillful false state in, under 18 U.S. If the application petition has been Febrics Paillet. Family Name (or Su	tements C. 1001 or any p riled for	e gre true of further and the and than natent iss or this un	(408) 720-8383 s and that all that these like so made at such willful sued thereon.
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· _	as the strength of invento
_	een filed for this undersigned invento
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ventor's Signature	Date
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ull Name:Jb	ioping Xu
(First, Middle [if any], Family	Name (or Surname), and Suffix [If any])
nventor's Signature	Date
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Residence Portland, Oregon USA (Circ. State. Country)	(Country)
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(City , Seate, Country) failing Address 1529 NW Statum Way Portland, Oregon 97229 USA AME OF FIFTH INVENTOR: A petition has be	(Compy)
(City , Scare, Country) Address 1529 NW Slocum Way Portland, Oregon 97229 USA IAME OF FIFTH INVENTOR: A petition has be	een filed for this undersigned invent
(City , Seem, Country) Address 1529 NW Slocum Way Portland, Oregon 97229 USA LAME OF FIFTH INVENTOR: A petition has be full Name: (Firm, Middle [If any], Family	een filed for this undersigned invento Name (or Surname), and Suffix (if anyl)
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(City., Scare, Country) Section Country	Name (or Surname), and Suffix (if anyl) Date Citizenship
(City . Scare, Country) ailing Address 1529 NW Skozam Way Portland, Oregon 97229 USA AME OF FIFTH INVENTOR: A petition has b (First, Middle [If any), Family	een filed for this undersigned invento Name (or Surname), and Suffix (if anyl) Date
(City . State, Country) address 1529 NW Slocum Way Portland, Oregon 97229 USA AME OF FIFTH INVENTOR: A petition has built Name: (Firm, Middle [If any], Family esidence	Name (or Surname), and Suffix (if anyl) Date Citizenship



I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Afford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbit, Reg. No. 38,591; Jordan M. Becker, Reg. No. 39,802; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 45,148; Gregory D. Calowell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,637; Mint D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos. Reg. No. 37,813; Sanjeet Dutta. Reg. No. 45,025; Stephien Int. Lee North, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 46,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Erio S. Hyman, Reg. No. 30,139; Welter T. Kim, Reg. No. 42,731; March M. 1885; Sheryl Sue Holloway and Reg. No. 42,731; March M. 1885; Sheryl Sue Holloway and Reg. No. 42,731; March M. 1885; Reg. No Eric T. King, Reg. No. 44,188; Steve Laut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,746; Gordon R. Lindsen III, Reg. No. 33,182; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,785; Michael J. Mailla, Reg. No. 38,591; Andre L. Marsie, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rounte, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rounte, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,238; Philip A. Pedigo, Reg. No. P-52,107; Marina Pornova, Reg. No. 45,750; James H. Saltar, Reg. No. 35,658; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,096; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Torn, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zendt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,218; Mark L. Walson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; Mark L. Walson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; and Norman Zaiman, Reg. No. 26,250; my patent attorneys, and Brent E. Vacchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,805; Rob D. Anderson, Reg. No. 33,825; Shireen I. Becon, Reg. No. 40,484; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,801; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 785; George Chan, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,645; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffray S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg. No. 39,973; Christopher Gagne, Reg. No. 36,142; Shammini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kaison, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Isase Lin, Reg. No. 50,072; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeier, Reg. No. 50,072; Anthony Martinez, Reg. No. 53,320; Paul Nagy, Reg. No. 37,898; Michael J. Neshelwet, Reg. No. 47,819; Shootin A. Nichael J. Neshelwet, Reg. No. 48,819; Alban Dadarcan, Gilos Reg. No. 39,908; No. 44,210; Alban Dadarcan, Gilos Reg. No. 39,908; No. 44,810; Alban Dadarcan, Gilos Reg. No. 39,908; No. 44,810; Alban Dadarcan, Gilos Reg. No. 39,908; No. 44,810; Alban Dadarcan, Gilos Reg. No. 49,908; No. 41,810; Alban Dadarcan, Gilos Reg. No. 40,908; No. 41,810; Alban Dadarcan, Gilos Reg. No. 41,81 Dennis A. Nichtells, Reg. No. 42,036; Lainny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,996; Dennis A. Nichtells, Reg. No. 42,036; Lainny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 35,381; Crystal Michael D. Pilmier, Reg. No. 43,004; Michael Prokach, Reg. No. 43,021; Kevin A. Reif, Reg. No. 35,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,163; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; Oand Simon, Reg. No. 32,756; Staven P. Skabrat, Reg. No. 82,279; Paul E. Stalest Den Ma. 44,326; Leal D. Ctimans. Mar. Den No. 42,473; Denid Ten. Reg. No. 50,884; 38,279; Paul E. Steiner, Reg. No. 41,328; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travia, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,854; Calvin E. Wells, Reg. No. 43,256; Shuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yans, Reg. No. 42,242; my patent attorneys, and my patent agants, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (405)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent atterneys; with full power of substitution and revocation, to presecute this application and to transact all business in the Palent and Trademark Office connected herewith.



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (e) A patent by its very nature is effected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duly of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the ciaim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a cigim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any cialm remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$51.97(b)-(d) and 1.86. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully
 - (1) Prior art close in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or presecution of a patent application believe any pending distin patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facto case of unpattentability of a daim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting on argument of patentability.

A prima facto case of unpatentability is established when the information compels a conclusion that a chaim is unpatentable under the prepanderance of evidence, burden-of-proof standard, giving each term in the delimits broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each entorney or agent who prepares or presentes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignes or with anyone to whom there is an obligation to essign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filling date of the prior application and the national or PCT international filing date of the continuator-in-part application,



DECLARATION AND POWER OF	Attorney Docket Numb	er 42P19120
ATTORNEY FOR PATENT APPLICATION	First Named Inventor	Fabrice Paillet
(37 CFR 1.63)		OMPLETE IF KNOWN
	Application Number	10/808,785
Declaration Declaration Submitted Submitted after initial	Piling Date	March 24, 2004
with initial Filing (surcharge	Art Unit	
Filing (37 CFR 1.19(e))		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

t believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the invention)	· · · · · · · · · · · · · · · · · · ·
the specification of which	
Is attached hereto.	•
OR	
was filed on (if applicable): or as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my Invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Numb		Count	ry	Foreign Filing Date (MM/DD/YYYY)	Priori Not Ctal	,	Certified Copy Attached?
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211 1 1411110.	(First, Myddle [if any], Pam	ily Name (or Surname), an	d Suffix [if any])				
ventor's Signa	ature //	Date	6/16/04				
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AME OF FOUR	RTH INVENTOR: A petition has	s been filed for this	undersigned invento				
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		Banping Xu					
ull Name:	(First, Middle [if any], Fan	Ranping Xu ntly Name (or Surname), a	nd Suffix [if any])				
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ull Name:	(First, Middle [if any], Fas ature Portland, Oregon USA (City , State, Cowary)	Ranping Xu ity Name (or Surname), a Data Citizenship	nd Suffix [if any]) USA (Country)				
ull Name:	(First, Middle [if any], Fas ature Portland, Oregon USA (City , State, Couvery) is 1529 NW Slocum Way	Ranping Xu nily Name (or Surname), a Data	nd Suffix [if any]) USA (Country)				
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ull Name:	(First, Middle [if any], Fast ature Portland, Oregon USA (Cury , State, Country) is 1529 NW Slocum Way Portland, Oregon 97229 USA	Ranping Xu sily Name (or Surname), a Data Citizenship	usa (Country)				
ull Name: eventor's Sign esidence F lailing Addres	(First, Middle [if any], Fast ature Portland, Oregon USA (Cury , State, Country) is 1529 NW Slocum Way Portland, Oregon 97229 USA	Ranping Xu sily Name (or Surname), a Data Citizenship	nd Suffix [(f any]) USA (Country)				
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Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good fath in dealing with the Office, which includes a duty to disclose to the Office all information know to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was clied by the Office or submitted to the Office in the manner prescribed by \$\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is meterial to palentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by fiself or in combination with other information, a prima facile case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability railed on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facte case of unpatentability is established when the information compate a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a petent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or presecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, egent or inventor may comply with this cection by disclosing information to the attorney, egent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



DECLARATION AND POWER OF
ATTORNEY FOR PATENT APPLICATION
(37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

or

Declaration
Submitted after initial
Filing (surcharge
(37 CFR 1.16(e))
required)

Attorney Docket Number		42P19120
First Named Inventor	Fal	orice Paillet
C	OM	PLETE IF KNOWN
Application Number	10)/808,785
Filing Date M		arch 24, 2004
Art Unit		
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
the specification of which	
is attached hereto.	
OR .	
was filed on (if applicable): or as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

PC	ior Foreign	Application(s):								
		oreign Application Number(s)	Co	untry	Foreign Filing I		lority Daimed	Certified Attach		
						1	–	Yes	□No	
						[-	Yes	□No	
								Yes	□No	
						} [Yes	□No	
						[J	Yes	□No	
a p sul	hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.									
Din	ect all com	espondence to:	☑ Custome	r Number	08791	or 🗀 (Corresponde	ence addr	ess below	
N	ame	Blakely, Sokoloff, 7	laylor & Zafm	an LLP						
A	ddress	12400 Wilshire Bot	ulevard, 7th Flo	oor						•
C	ty	Los Angeles		State	California		Zip Code	90025		
Ç	ountry			Telephone	(408) 720-8300		Fax	(408) 7	20-8383	
sta sta ere	hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful talse statements may jeopardize the validity of the application or any petent issued thereon.									
	NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this undersigned inventor									
·uli	Name:		Wiret Mi	ddle lif anul	Fabrice Paill Family Name (or S		Suffer fif as	7)		
nν	entor's S	Signature	خمد		***-		/16/20			
Re:	sidence	Hillsboro, Orego		-	Cii	izenship <u>j</u>	France			
		•	City , State, Co	untry)				(Country)		
/lal	ling Add	ress 1691 NB 6	4th Avenue							

Docket No. 42P19120

Hillsboro, Oregon 97124 USA

full Name:	1	David Rennie
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nventor's Signat		Dete
lesidence <u>Eto</u>	bicoke, Ontario Canada	Citizenship Canada
Mailing Address	(City, State, Country) 2 Dunsany Cres.	(Country)
manning Madress	Etobicoke, Ontario M9R3W6 Canada	
IAME OF THIRD	. —	been filed for this undersigned inver
		ly Name (or Surname), and Suffix [if any])
nventor's Signat		Date
lesidence <u>Por</u>	dand, Oregon USA (City, State, Country)	Citizenship USA (Country)
	(City, State, Country)	(Country)
failing Addrage	2574 NW Disclosuch Drive	, , , , , , , , , , , , , , , , , , , ,
failing Address	2574 NW Blackcomb Drive Portland, Oregon 97229 USA H INVENTOR:	been filed for this undersigned inven
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No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filling and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which from on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filling or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facle case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filling or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION			Attorney Docket Numb	100	42P19120	
			First Named Inventor	Fal	brice Paillet	
	(37	CFR 1.63)		OM	PLETE IF KNOWN	
			Application Number	10	V808,785	
Declaration Submitted CR Submitted after Initial			Filing Date	М	larch 24, 2004	
with initial	Filling (stircharge	Art Unit				
Fäing		(37 CFR 1.16(e))	Examiner Name	П		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (If only one name listed below) or an original and joint inventor (If plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	1 CICLE CORRECTION
(Tule of the Invention)	
the specification of which	
OR	
was filed on (if applicable): or03/24/2004 as United States Application Number PCT International Application Number	10/808,785
and was amended on	(If applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.58, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, tisted below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Pric Not Cl	ority Jahrned	Certified Copy Attached?
				}	Yes No
		1		3	☐Yes ☐No
			<u>ַ</u>	3	Yes No
				3	Tes No
			<u>_</u>	<u></u>	Yes No
nereby appoint the person part of this document) as (ubstitution and revocation, atent and Trademark Offic	my respective pate to prosecute this a	ent attomeys and application and to with.	patent e transac	agents, v ot all bus	iness in the U.S
lirect all correspondence to:	. Customer Number	08791	or 🗆 C	Correspond	lence address below
Name Blakely, Sokoloff, Ta Address 12400 Wilshire Boule	·			····	
12400 WIENIE BOU		- 440		7-0-4-	90025
	State	California		Zip Code	90.002.3
City Los Angeles		Сансаны			
Country	Telephone	(408) 720-8300		Faz	(408) 720-8383
	tements made here ation and belief an the knowledge tha applicationment, or both ardize the validity of	ein of my own kno e believed to be t t willful false stat th, under 18 U.S.	rue; and ements C. 1001 or any p	Faz are true d further and the and tha	(408) 720-8383 e and that all that these like so made t such willful sued thereon.
Country hereby declare that all statements made on inform tatements were made with re punishable by fine or in alse statements may jeope AME OF SOLE OR FIRST I	Telephone tements made here ation and belief an the knowledge tha aprisonment, or bot andize the validity o	ein of my own known to be lieved to be to the willful false statth, under 18 U.S. of the application of the petition has been specific Paillet	rue; and ements C. 1001 or any p filed fo	Faz are true d further and the and tha atent iss	(408) 720-8383 a and that all that these like so made t such willful sued thereon.
Country hereby declare that all statements made on inform tatements were made with the punishable by fine or in alse statements may jeope IAME OF SOLE OR FIRST I	Telephone tements made here ation and belief an the knowledge tha aprisonment, or bot andize the validity o	ein of my own known to be lieved to be to	rue; and ements C. 1001 or any p filed for	Faz are true d further and the and tha atent iss	(408) 720-8383 a and that all that these like so made t such willful sued thereon.
hereby declare that all statements made on inform tatements were made with re punishable by fine or in also statements may jeope AME OF SOLE OR FIRST I	Telephone tements made here ation and belief an the knowledge tha aprisonment, or bot andize the validity o	ein of my own known to be lieved to be to the willful false statth, under 18 U.S. of the application of the petition has been specific Paillet	rue; and ements C. 1001 or any p filed for	Faz are true d further and the and tha atent iss	(408) 720-8383 a and that all that these like so made t such willful sued thereon. dersigned inver
hereby declare that all statements made on inform tatements were made with the punishable by fine or in alse statements may jeope IAME OF SOLE OR FIRST I will Name: hyentor's Signature Residence Hillston, Oregon	Telephone itements made here ation and belief an the knowledge tha applicanment, or both ardize the validity of NVENTOR: A (Firm, Middle [if any, an USA	ein of my own known to be leved to be to b	rue; and ements C. 1001 or any p filed for	Fax are true d further and the and tha eatent is: or this un	(408) 720-8383 a and that all that these like so made it such willful sued thereon. dersigned invertible.
hereby declare that all statements made on inform tatements were made with the punishable by fine or in also statements may jeope IAME OF SOLE OR FIRST I will Name: Inventor's Signature Residence Hilldoor, Oregon	Telephone tements made here ation and belief an the knowledge tha aprisonment, or bot andize the validity of NVENTOR: A (Firm, Middle [if any)	ein of my own known to be leved to be to b	fue; and ements C. 1001 or any p filed for name), and	Fax are true d further and the and tha eatent is: or this un	(408) 720-8383 a and that all that these like so made t such willful sued thereon. dersigned inver

ul) Name:	David Regnie
	'amily Name (or Surname), and Suffix (If any))
	Date June 17, 2001
ventor's Signature Dan Rennus	Date
esidence Embicoke, Ontario Causda	Citizenship Canada
esidence <u>Embicoke, Ontario Causda</u> (Chy, Sione, Country)	(Сомпру)
	(0,000)
alling Address 2 Dunsany Cres. Etobicoke, Ontario M9R3W6 Canada	
Emotoke, Onland 145 No 40 Canada	
AME OF THIRD INVENTOR: A petition in	nas been filed for this undersigned inventor
•	
ull Name:	Tensy Karnik
(First, Middle [if any), F	amily Name (or Surname), and Suffix [if any])
nventor's Signature	Date
esidence Pontand, Oregon USA	Citizenship USA
(City. State, Country)	(Сашиту)
lailing Address 3574 NW Blackcomb Drive	
Portland, Oregon 97229 USA	
AME OF FOURTH INVENTOR:	nas been filed for this undersigned inventor
uii Name:	Jianping Xu
uli Name:	Jianping Xu Tamily Name (or Surname), and Suffix (if any))
uli Name:	Jianping Xu
uli Name:(First, Middle [if any], F nventor's Signature	Jianping Xu Family Name (or Surname), and Suffix ((f any)) Date
full Name: (First, Middle [if any], Finventor's Signature Residence Portland, Oregon USA	Jianping Xu Family Name (or Surname), and Suffix (If any)) Date Citizenship USA
ruli Name: (First, Middle [if any], Finventor's Signature Residence Portland, Oregon USA (City : State, Country)	Jianping Xu Family Name (or Surname), and Suffix (if any)) Date
uil Name: (First, Middle [if any], Fiventor's Signature esidence Portland, Oregon USA (City , State, Country) ailing Address 1529 NW Sloram Way	Jianping Xu Family Name (or Surname), and Suffix ((f any)) Date Citizenship USA
ruli Name: (First, Middle [if any], Finventor's Signature Residence Portland, Oregon USA (City : State, Country)	Jianping Xu Family Name (or Surname), and Suffix ((f any)) Date Citizenship USA
Full Name: (First, Middle [if any], Finventor's Signature Residence Portland, Oregon USA (City: State, Country) Mailing Address 1529 NW Slocum Way	Jianping Xu Family Name (or Surname), and Suffix ((f any)) Date Citizenship USA
(First, Middle [if any], Finventor's Signature Residence Portland, Oregon USA (City: State, Country) Mailing Address 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu Family Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country)
(First, Middle [if any], Forestand, Oregon USA (City: State, Country) Italiang Address 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu Family Name (or Surname), and Suffix ((f any)) Date Citizenship USA
(First, Middle [if arry], Forestor's Signature Desidence Purtland, Oregon USA (City: State, Country) Italiang Address 1529 NW Skatum Way Portland, Oregon 97229 USA IAME OF FIFTH INVENTOR:	Jianping Xu Family Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country)
(First, Middle [if any], Forestand, Oregon USA (City: State, Country) Asiling Address 1529 NW Stocum Way Portland, Oregon 97229 USA LAME OF FIFTH INVENTOR: A petition is	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) mas been filed for this undersigned inventor
(First, Middle [if any], Foreign USA (City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : State, Country) Italiand City : Country :	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) mas been filed for this undersigned inventor
(First, Middle [if any], Forestand, Oregon USA (City: State, Country) Asiling Address 1529 NW Slottem Way Portland, Oregon 97229 USA LAME OF FIFTH INVENTOR: A petition is	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) has been filed for this undersigned invento
(First, Middle [if any], Forestand, Oregon USA (City , State, Country) Mailing Address 1529 NW Shoram Way Portland, Oregon 97229 USA IAME OF FIFTH INVENTOR: A petition in the country of the country o	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) mas been filed for this undersigned invento Tamily Name (or Surname), and Suffix (if any)) Date
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uil Name: (First, Middle [if arry], Fiventor's Signature esidence Portland, Oregon USA (Ciry , State, Country) lailing Address 1529 NW Slocum Way Portland, Oregon 97229 USA AME OF FIFTH INVENTOR: A petition is uil Name: (First, Middle [if any], Fiventor's Signature esidence (City , State, Country)	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) mas been filed for this undersigned invento
uil Name: (First, Middle [if arry], Fiventor's Signature esidence Portland, Oregon USA (Ciry , Stare, Country) lailing Address 1529 NW Slocum Way Portland, Oregon 97229 USA AME OF FIFTH INVENTOR: A petition is uil Name: (First, Middle [if any], Fiventor's Signature esidence (City , State, Country)	Jianping Xu Tamily Name (or Surname), and Suffix (if any)) Date Citizenship USA (Country) mas been filed for this undersigned invento Tamily Name (or Surname), and Suffix (if any)) Date Citizenship
uil Name: (First, Middle [if any], Finentor's Signature Residence Portland, Oregon USA (City : State, Country) Isiling Address 1529 NW Slottem Way Portland, Oregon 97229 USA IAME OF FIFTH INVENTOR: A petition in the country of	Jianping Xu Tamily Name (or Surname), and Suffix (((any))) Date Citizenship USA (Country) mas been filed for this undersigned inventor Tamily Name (or Surname), and Suffix (if any)) Date Citizenship



I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,281; Anthony H. Azure, Reg. No. 52,580; W. Thomas Bebbitt, Reg. No. 39,581; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alen Burnett, Reg. No. 48,148; Gregory D. Caldwell, Reg. No. 39,928; Thomas M. Coester, Reg. No. 39,837; Miml D. Dao, Reg. No. 45,628; Stephen M. De Klark, Reg. No. 48,509; Daniel M. De Vos. Reg. No. 37,813; Sanjeet Dutts. Reg. No. 48,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Fernil, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 46,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Erio S. Hyman, Reg. No. 30,129; Welter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,168; Steve Laut Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindsen III, Reg. No. 33,182; Jan C. Little, Reg. No. 41,181; Joseph Litz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 38,591; Andre L. Marsis, Reg. No. 48,095; Raul D. Martinez, Reg. No. 48,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rounke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-62,107; Marina Portnova, Reg. No. 45,750; James H. Selter, Reg. No. 35,668; William W. Schael, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Torn, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomes A. Van Zendt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Walson, Reg. No. 48,322; Thomas C. Webster, Reg. No. 48,154; C. Tersas Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 28,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,626; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 785; George Chen, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,548; Kenneth Cool, Reg. No. 40.570; Ted A. Crawford, Reg. No. 50,810; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Ted A. Crawford, Reg. No. 50,810; Robert Diehl, Reg. No. 35,116; Jeffrey S. Oracger, Reg. No. 41,000; Cyndria Thornas Fastz. Reg. No. 39,973; Christopher Gegne, Reg. No. 38,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hopa, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 45,125; Larry Mennemeier, Reg. No. 51,003; Erik M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,898; Michael J. Neshelwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,038; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Gilas, Reg. No. 39,996; Michael D. Pilmier, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 35,381; Crystal D. Ssyles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, No. 43, 200; Michael Stoop, Reg. No. 43, 200; Mark Steeley, No. 43, 200; Michael Stoop, Reg. No. 32,766; Steven P. Skabrat, Reg. No. Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabret, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,328; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,854; Calvin E. Weils, Reg. No. 43,256; Stuart Whitington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,858; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Staven D. Yatas, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, belephone (408)785-8080; and James R. Theim, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent atterneys; with full power of substitution and revocation, to prosecute this application and to trensact all business in the Palent and Trademark Office connected herewith,



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of end evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duly of candor and good taith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending datin until the cirilm is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or witndrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the menner prescribed by \$\$1.97(b)-(d) and 1,88. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patents billy when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prime facte case of unpatentability of a cisim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facte case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the prepanderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the apacification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each enormey or egent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignes or with anyone to whom there is an obligation to essign the application.
- (d) Individuals other than the atterney, agent or inventor may comply with this section by disclosing information to the atterney, agent. or loventor.
- (a) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filling date of the continuation-in-part application.



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		ON AND POWER OF	Attorney Docket Number 42P19120		
ATTORNEY FOR PATENT APPLICATION			First Named Inventor	Fabrice Paillet	
	(37 CFR 1.63)		COMPLETE IF KNOWN		
_			Application Number	10/808,785	
Declaration Submitted Submitted Submitted		Filling Date	March 24, 2004		
with initial Filing	OR	Filing (surcharge (37 CFR 1.18(e))	Art Unit		
i aniy			Exeminer Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
the specification of which	
Is attached hereto.	•
OR .	
was filed on (if applicable): oras United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

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Prior	Foreign Application Number(s)	Countr	У	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
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Mailing Address

Inventor's Signature

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Date

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	David Rennie
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I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Tradement Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Alford, Reg. No. 37,784; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,560; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Tedd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 48,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,697; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 48,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fatuni, Reg. No. 41,402; Thomas S. Ferriti, Reg. No. 42,532; Angelo J. Gaz., Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,892; Eric S. Hyman, Reg. No. 30,138; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Leut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Luiz, Reg. No. 43,765; Michael J. Maille, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Rep. No. 46,904; Paul A. Mendonse, Reg. No. 42,679; Jonethan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyan, Reg. No. 42,034; Robert B. O'Rourice, Reg. No. 48,972; Daniel E. Ovanezian, No. 41,235; Firm V. Nguyan, Reg. No. 42,034; Rubert B. Orbuna, Reg. No. 45,750; James H. Salker, Reg. No. 41,238; Philip A. Pedigo, Reg. No. 95,668; William W. Scheat, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,096; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Liss Tom, Reg. No. P-52,291; Kerty D. Tweet, Reg. No. 45,659; Mark C. Van Ness, Reg. No. 39,885; Through The Mark C. Van Ness, Reg. No. 39,885; Thomas A. Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; C. Teress Wong, Reg. No. 48,042; and Norman Zarman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 46,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Besie, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Cherr, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,546; Kermeth Coot, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,810; Robert Dietri, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Fastz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Shamrini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,088; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,858; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemaler, Reg. No. 51,003; Erik M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,696; Michael J. Neshelwat, Reg. No. 47,619; Dennis A. Nichotts, Reg. No. 42,036; Lanny Parter, Reg. No. 43,231; Alain Pedarson-Giles, Reg. No. 39,996; Michael D. Pilmier, Reg. No. 43,004; Michael Protech, Reg. No. 43,021; Kevin A. Relf, Reg. No. 36,381; Crystal D. Saylos, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kennsth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skahrat, Reg. No. 38,279; Paul E. Steiner, Reg. No. 41,326; Jont D. Stufmen-Horn, Reg. No. 42,13; David Tran, Reg. No. 50,604; John F. Travie, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Welle, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winide, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Bivd., Santa Clars, CA 95062, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and presecution of a patent application has a duty of candor and good faith in dualing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office is the manner prescribed by \$§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not ounsulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facto case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatantability relied on by the Office, or
 - (ii) Ascerting an argument of patentability.

A prima facto case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with envone to whom there is an obligation to assign the application.
- (d) Individuals other than the afterney, agent or invantor may comply with this section by disclosing information to the atterney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information knows to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.